

# INTERNATIONAL SEARCH REPORT

International Application No

PCT/BE2004/000112

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 A61F5/56

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 A61F A61C

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 868 138 A (HALSTROM LEONARD WAYNE) 9 February 1999 (1999-02-09)	1, 3, 9
Y	column 5, line 25 - column 6, line 53; figures 3, 4, 7-11	6-8, 10-12
Y	----- US 5 409 017 A (LOWE ALAN A) 25 April 1995 (1995-04-25)	6-8, 10-12
A	abstract; figures 1-6	1-3, 9
A	----- US 3 854 208 A (ARANT G) 17 December 1974 (1974-12-17)	1-12
A	abstract; figures 1-13	
A	----- US 5 281 133 A (FARZIN-NIA FARROKH) 25 January 1994 (1994-01-25)	3-12
	abstract; figures 1, 2	
	----- -/-	

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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Date of the actual completion of the international search

22 April 2005

Date of mailing of the international search report

02/05/2005

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 1 247 498 A (LEONE) 9 October 2002 (2002-10-09) -----	1-12
P,X	US 6 729 335 B1 (HALSTROM LEONARD WAYNE) 4 May 2004 (2004-05-04) abstract; figures 3-10 -----	1,2,9
P,X	US 6 769 910 B1 (PANTINO DON A) 3 August 2004 (2004-08-03) abstract; figures 15,16 -----	1

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/BE2004/000112

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 5868138	A	09-02-1999	US 6041784 A US 5365945 A US 6161542 A US 6729335 B1 AT 164752 T AU 5620994 A CA 2094411 A1 WO 9423673 A1 DE 69317912 D1 DE 69317912 T2 EP 0697844 A1 ES 2118365 T3	28-03-2000 22-11-1994 19-12-2000 04-05-2004 15-04-1998 08-11-1994 14-10-1994 27-10-1994 14-05-1998 12-11-1998 28-02-1996 16-09-1998
US 5409017	A	25-04-1995	AU 679316 B2 AU 1379795 A CA 2181360 A1 WO 9519746 A1 DE 69501111 D1 DE 69501111 T2 EP 0740538 A1 ES 2110310 T3 JP 9507646 T	26-06-1997 08-08-1995 27-07-1995 27-07-1995 08-01-1998 20-05-1998 06-11-1996 01-02-1998 05-08-1997
US 3854208	A	17-12-1974	US 3907444 A	23-09-1975
US 5281133	A	25-01-1994	DE 4338986 A1	19-05-1994
EP 1247498	A	09-10-2002	IT FI20010057 A1 EP 1247498 A1 US 2002142259 A1	02-10-2002 09-10-2002 03-10-2002
US 6729335	B1	04-05-2004	US 6041784 A US 5365945 A US 6161542 A US 5868138 A AT 164752 T AU 5620994 A CA 2094411 A1 WO 9423673 A1 DE 69317912 D1 DE 69317912 T2 EP 0697844 A1 ES 2118365 T3	28-03-2000 22-11-1994 19-12-2000 09-02-1999 15-04-1998 08-11-1994 14-10-1994 27-10-1994 14-05-1998 12-11-1998 28-02-1996 16-09-1998
US 6769910	B1	03-08-2004	NONE	